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Copy 1UNIDENTIFIED SURFACE-TO-AIR MISSILE LAUNCH EXERCISE

USSR

1. SIGNIFICANCE: OBSERVATION OF AN UNKNOWN SURFACE-TO-AIR MISSILE AND ITS ASSOCIATED GUIDANCE/TRACKING RADAR.
2. REMARKS: AN UNIDENTIFIED SURFACE-TO-AIR MISSILE AND ASSOCIATED MISSILE GUIDANCE/TRACKING RADAR WERE REVEALED IN THE FILM, "ROCKETS IN DEFENSE OF PEACE", WHICH WAS TELECAST ON MOSCOW TV ON 9 MAY 65, FOLLOWING THE MOSCOW PARADE OF THAT DATE.
3. LOCATION: ANALYSIS OF KNOWN SOVIET MISSILE RANGES REVEALS THAT THE FIRING SEQUENCE SHOWN IN THE FILM PROBABLY OCCURRED AT LAUNCH PAD B-1, LAUNCH COMPLEX B, SARY-SHAGAN ANTIMISSILE TEST CENTER.
4. MISSILE CHARACTERISTICS: PRELIMINARY ANALYSIS OF THE LAUNCH SEQUENCE ALLOWS DEFINITION OF SOME CHARACTERISTICS OF THE UNIDENTIFIED SURFACE-TO-AIR MISSILE SHOWN ON A RAIL-TYPE LAUNCHER:

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THE MISSILE DISPLAYS A ROCKET-POWERED BOOSTER AND PROBABLY USES A TANDEM BOOSTER/SUSTAINER COMBINATION WITH SEPARABLE BOOSTER.

THE BOOSTER'S FINS ARE RECTANGULAR, SIMILAR TO THOSE OF THE GOA'S BOOSTER.

THE SUSTAINER FINS APPEAR TO BE RELATIVELY LARGE DELTA-CONFIGURED SURFACES.

A TRAINABLE LAUNCH RAIL APPEARED TO LAUNCH THE MISSILE AT AN ELEVATION OF 50-60 DEGREES.

5. FIRE WHEEL CHARACTERISTICS:

FIRE WHEEL IS AN S-BAND FIRE CONTROL RADAR.

THE PARABOLIC DISH IS APPROXIMATELY

IN DIAMETER AND IS USUALLY MOUNTED NEAR THE

END OF A TWO-AXLE TRAILER. IT HAS 8 FULL

BRACES AND 8 HALF RADIAL BRACES, THE LATTER

GOING FROM THE EDGE OF THE REFLECTOR TO A

RING BRACE WHICH IS ROUGHLY HALF THE DIAMETER

OF THE REFLECTOR.

6. FILMED RADAR CHARACTERISTICS:

THE RADAR SHOWN IN THE FILM SEQUENCE CONSISTS

OF 2 FIRE WHEEL DISHES, PEDESTAL-MOUNTED ON

A PLATFORM, AND A THIRD UNIDENTIFIED SMALLER

DISH, ESTIMATED TO BE APPROXIMATELY ONE-HALF

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THE SIZE OF EACH OF THE LARGER DISHES AND MOUNTED AT THEIR SIDE. THE PEDESTAL IS TYPICAL OF THAT OF A SINGLE STEERABLE DISH MOUNTING, WITH PROVISION ON TOP FOR 3 DISHES. THE CONFIGURATION OF THE ENTIRE SET IS THAT OF AN UNIDENTIFIED GUIDANCE/ TRACKING RADAR.

BASED ON [REDACTED] THIS RADAR IS IDENTIFIED AS PROBABLY LOCATED ADJOINING THE NW CORNER OF THE UNDERGROUND CONTROL CENTER NEAR LAUNCH PADS B-1 AND B-2.

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7. FILMED RADAR CAPABILITIES:

THIS EQUIPMENT APPEARS TO HAVE A 360 DEGREE TRACKING CAPABILITY. IN THE FILM SEQUENCE, THE RADAR WAS SHOWN MOVING FROM A STOWED TO A TRACKING POSITION DURING THE MISSILE LAUNCH, WITH THE BORESIGHT GENERALLY ORIENTED TOWARD THE LAUNCH PAD. AT LEAST THE 2 LARGE FIRE WHEELS MOVED IN THE SAME PLANE DURING THE ENTIRE SEQUENCE. THE SMALLER UNIDENTIFIED DISH IS OBSCURED BY THE LARGER DISHES DURING THE MAJORITY OF THE FILM SEQUENCE.

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Page 48. ADDITIONAL OBSERVATIONS:

A SUSPECT SECOND UNIDENTIFIED GUIDANCE/

TRACKING RADAR IS OBSERVED ON [REDACTED] 25X

[REDACTED] ADJOINING THE NE CORNER OF THE 25X

CONTROL CENTER. THIS WAS NOT OBSERVED

IN THE SOVIET FILM. IT IS POSITIONED

ON A PLATFORM AND PEDESTAL SIMILAR TO

THAT PREVIOUSLY DESCRIBED. DETAILS OF THE

DISH CANNOT BE OBSERVED.

IN THE FILM SEQUENCE, A SEMI-CIRCULAR WALL,

PARTIALLY EMCOMPASSING THE LAUNCH POSI-

TION, IS OBSERVED. THIS IS SIMILAR TO

THE WALLS WHICH PARTIALLY EMCOMPASS LAUNCH

PADS B-1 AND B-2 AT LAUNCH COMPLEX B.

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PREPARED BY: CSD/Research Branch

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